

MSDS

(Material Safety Data Sheet)

Chemical Name : PERESEAL[®] PU SEALANT
Date of Preparation : March 2017
MSDS No. : P 008
Revision No. : #1

Section 1. Chemical Product and Company Identification

Product Name : PERESEAL [®] PU SEALANT	Emergency Telephone Number: +65 6558 6388
Supplier/Manufacturer Address : PFE Technologies Pte Ltd 9 Gul Street 4 Singapore 629238	Telephone number for Information: +65 6558 6388
Email Website : info@pfe.tech www.pfe.tech	Fax Number: +65 6558 7310

Section 2. Hazards Identification

2.1 Hazard description:

Xn Harmful

2.1.1 Information concerning particular hazards for human and environment:

The product has to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R36 Irritating to eyes.

R42/43 May cause sensitization by inhalation and skin contact.

Contains isocyanates.

Keep away from sources of ignition - No smoking.

Keep out of the reach of children.

2.3 Classification of the GHS

(Annex VI to Regulation (EC) No 1272/2008 on Classification, Labelling and Packaging of Dangerous Substances)

PHYSICAL HAZARDS

Not classified

HEALTH HAZARDS

Acute toxicity (Oral) - Category 4

Skin sensitization - Category 2

ENVIRONMENTAL HAZARDS

Not classified

GHS label elements

Pictograms or hazard symbols



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Hazard statement

H313: May be harmful in contact with skin

H333: May be harmful if inhaled

Precautionary statements

P261-Avoid breathing.

P270-Do not eat, drink or smoke when using this product.

P272-Contaminated work clothing should not be allowed out of the workplace.

P264-Wash hands thoroughly after handling.

P280- gloves/eye protection/face protection.

[Response]

P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352-IF ON SKIN: Gently wash with plenty of soap and water.

P333+P313-If skin irritation or rash occurs: Get medical advice/attention.

P363-Wash contaminated clothing before reuse.

P310-Immediately call a POISON CENTER or doctor/physician.

[Storage]

P403: Store in a well ventilated place

[Disposal]

P501-Dispose of contents/container through a waste management company authorized by the local government

Section 3. Composition / Information on Ingredients

Description: Mixture of substances listed below with nonhazardous additions.

Hazardous Ingredients	CAS No.	EINECS No.	Conc. (% w/w)	Classification
4,4-methylenediphenyl diisocyanate	101-68-8	202-966-0	0.1-1%	Xn ; R 42/43
Glycidyoxypropyltrimethoxysilane	2530-83-8	219-784-2	0.1-2%	Xn ; R 36
Xylene	1330-20-7	215-535-7	0.1-0.5%	Xn ; R 10

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Section 4. First-aid Measures

- 4.1 General information** : Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- 4.2 After inhalation** : Supply fresh air and to be sure call for a doctor. In case of unconsciousness place patient stably in side position for transportation.
- 4.3 After skin contact** : Immediately wash with water and soap and rinse thoroughly.
- 4.4 After eye contact** : Rinse opened eye for at least 15 minutes under running water. Consult a doctor.
- 4.5 After swallowing** : If symptoms persist consult doctor.

Section 5. Fire-Fighting Measures

- 5.1 Protective equipment** : Mount respiratory protective device and wear protective equipment.
- 5.2 Suitable extinguishing agents** : CO₂, sand, extinguishing powder. Do not use water.
- 5.3 For safety reasons unsuitable extinguishing agents** : Water with full jet.

Section 6. Accidental Release Measures

- 6.1 Person-related safety precautions** : Wear protective equipment. Keep unprotected persons away.
- 6.2 Measures for environmental protection** : Do not allow to enter sewers/ surface or ground water.
- 6.3 Measures for cleaning/collecting** : Ventilate area of spill; flood slowly with water to polymerase, absorb with sand / earth and dispose to chemical waste bin. Dispose in accordance with pertinent national legislation.

Section 7. Handling and Storage

7.1 Hazard description:

- Avoid contact and inhalation of the vapor
- Do not eat or drink while working
- Do not smoke while working

7.2 Storage:

- Keep container tightly closed and dry in a cool, well-ventilated place
- Keep away from food, beverages and animal feedstock
- Protect from frost
- Protect from heat and direct sunlight
- Protect from atmospheric moisture and water

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Section 8. Exposure Controls / Personal Protection

8.1 Personal protection equipment:

- General protective and hygiene measures
- Take care for sufficient ventilation or exhaust on the workshop place
- Avoid contact with eyes and skin
- Use barrier skin cream
- Remove soiled or soaked clothing immediately
- Do not eat, drink or smoke during work time
- Wash hands before breaks and after work

8.2 Hand protection:

- Butyl rubber/nitrile rubber gloves

8.3 Eye protection:

- Safety glasses

8.4 Additional Information:

- Wash hands before eating, drinking, smoking and using the toilet.

Section 9. Physical and Chemical Properties

9.1 General Information

Form	: Paste
Colour	: Various colours
Odour	: Characteristic
pH value	: Undetermined
Specific gravity	: $1.24 \pm 0,02 \text{ g/cm}^3$
Solubility in water	: Reacts with water
VOC %	: <5

Section 10. Stability and Reactivity

10.1 Chemical stability: This material is thermally stable when stored and used as directed.

10.2 Conditions to avoid: No hazardous reactions when stored and handled according to prescribed instructions.

10.3 Hazardous decomposition products: Oxides of carbon and nitrogen, smoke and other toxic fumes.

10.4 Hazardous reactions: No information available.

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Section 11. Toxicological Information

11.1 Acute Toxicity

LD/LC50 values relevant for classification:

1330-20-7 Xylene : No data available
101-68-8 4,4'-methylenediphenyl diisocyanate : Oral LD50

11.1.1 Acute Effects

Sensitization: Allergic reaction can occur with sensitive persons.
Inhalation: Material may cause irritation.
Skin contact: May cause irritation.
Eye contact: May cause irritation.

11.1.2 Long term effects

No information available for product.

Section 12. Ecological Information

12.1 Environmental fate and distribution:

Solid material, insoluble in water.
Do not allow to enter waste water drain, waterways or soil

Section 13. Disposal Considerations

13.1 Product disposal:

Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

13.2 Packaging disposal:

Dispose of in accordance with local regulations. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

Section 14. Transport Information

ADR

This material is not classified as dangerous under ADR regulations.

RID

This material is not classified as dangerous under RID regulations.

IMDG

This material is not classified as dangerous under IMDG regulations.

IATA

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Section 15. Regulatory Information

15.1 Description of the Phrase Codes:

Labelling in accordance with directives CLP and 1999/45/EC



15.1.1 Risk Phrases

- R10 Flammable
- R36 Irritating to eyes.
- R42/43 May cause sensitization by inhalation and skin contact.

15.1.2 Safety Phrases

- 1/2 Keep locked up and out of the reach of children.
- 23 Do not breathe vapor.
- 36/37 Wear suitable protective clothing and gloves.
- 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 63 In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Section 16. Other Information

The information provided on this Material Safety Data Sheet (MSDS) is correct to the best of our knowledge and information at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

All information and instructions provided in this MSDS are based on the current state of scientific and technical knowledge at the date indicated on the present MSDS. The company supplying entity shall not be held responsible for any defect in the product covered by this MSDS, should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

Department issuing MSDS: Product safety department.

Contact: Product safety department info@pfetec.sg